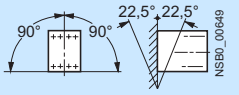
Technical specifications

Starter	Type			3TE68
General data				
Permissible mounting position, assembly note[1] The contactors are designed for operation on a vertical mounting surface.				
Mechanical endurance			Operating cycles	3 million
Type of individual contactors		K1 line contactor K3 delta contactor K2 star contactor	Type Type Type	3TF68 3TF68 3RT10 75
Unassigned auxiliary contacts of the individual contactors				[2]
Current-carrying capacity with reversing time up to 10 s				
Rated operational current I_e		up to 690 V	A	1090
Rated power for induction motors with 50 Hz		at 230 V 400 V 500 V 690 V	kW kW kW kW	355 612 800 1046
Switching frequency with overload relay			h^{-1}	3
Current-carrying capacity with reversing time up to 15 s				
Rated operational current I_e		up to 500 V 690 V	A A	923 883
Rated power for induction motors with 50 Hz		at 230 V 400 V 500 V 690 V	kW kW kW kW	295 515 677 885
Switching frequency with overload relay			h^{-1}	2
Current-carrying capacity with reversing time up to 20 s				
Rated operational current I_e		up to 500 V 690 V	A A	800 765
Rated power for induction motors with 50 Hz		at 230 V 400 V 500 V 690 V	kW kW kW kW	244 444 590 770
Switching frequency with overload relay			h^{-1}	2
Short-circuit protection				
Main circuit Fuse links, gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE				
- According to IEC 60947-4-1/ EN 60947-4-1	Type of coordination "1" Type of coordination "2"		A A	1000 500[3]
Auxiliary circuit				
Fuse links gL/gG (weld-free protection at $I_k \geq 1$ kA) DIAZED 5SB, NEOZED 5SE			A	10
or miniature circuit breakers with C characteristic ($I_k < 400$ A)				

[1] If the contactors are mounted at a 90° angle (conducting paths horizontally one above the other), the following reductions apply: Switching frequency: to 80 % of the standard values.

[2] See circuit diagrams of the control circuits.

[3] The maximum motor rated current must not be exceeded.

3TE6 contactor assemblies for wye-delta starting, 630 kW

Contactor assembly Type		3TE68
Short-circuit protection with fuses for motor feeders with short-circuit currents up to 50 kA and 690 V		
Rated motor current	A	277 ... 1090
Overload relay	Type	3RB20 66
Setting range (the overload relays must be set to 0.58 times the motor rated current)	A	160 ... 630
Permissible back-up fuses for starters, comprising contactor assemblies and overload relays. Single or double infeed[1]		
• Fuse links LV HRC Type 3NA, DIAZED Type 5SB, NEOZED Type 5SE		
- Type of coordination "1"	A	1000
- Type of coordination "2"	A	500
• LV HRC fuse links type 3ND, aM operational class		
- Type of coordination "2"	A	630
• Fuse links, Siemens Canada, HRC fuses, Type II	A	1000
• Fuse links UL-listed fuses CLASS L	A	1200
• Fuse links British Standard Fuses BS88		
- Type of coordination "1"	A	1000
- Type of coordination "2"	A	500

For short-circuit protection with overload relays see Protection Equipment: Overload Relays -> 3RB2 Solid-State Overload Relays.
Use double infeed for higher motor rated currents (see circuit diagram).

[1] The maximum motor rated current must not be exceeded.